

STATEMENT OF WORK  
(SOW)

FOR THE REBUILD

OF THE

CUMMINS VT-400  
CRANKSHAFT ASSEMBLY  
NSN 2815-01-108-5384

AND

CUMMINS VT-400 CRANKSHAFT  
NSN 2815-01-123-2495

FOR THE ASSAULT AMPHIBIOUS VEHICLE (AAV)

Statement of Work for the  
Rebuild of the Cummins VT-400 Crankshaft Assembly  
NSN 2815-01-123-2495  
and  
Cummins VT-400 Crankshaft  
for the Assault Amphibious Vehicle (AAV)  
NSN 2815-01-108-5384

Table of Contents

<u>PARAGRAPH</u>	<u>TITLE</u>	<u>PAGE</u>
1.0	SCOPE	1
1.1	Background	1
2.0	APPLICABLE DOCUMENTS	1
2.1	Military Standards	1
2.2	Other Government Documents and Publications	1
2.3	Military Handbooks (For Guidance)	2
2.4	Industry Standards	2
2.5	Industry Standards (For Guidance)	2
3.0	REQUIREMENTS	2
3.1	General Tasks	2
3.2	Detailed Tasks	3
3.2.1	Phase I - Rebuild	3
3.2.2	Phase II - Inspection, Testing, and Acceptance	3
3.2.3	Phase III - Packaging, Handling, Storage, and Transportation (PHS&T)	3
3.3	Configuration Management	3
3.4	Government Furnished Equipment (GFE)/Government Furnished Materiel (GFM)	4
3.5	Contractor Furnished Materiel (CFM)	4
3.6	Quality Assurance Provisions	4
4.0	REPORTS	5

Statement of Work for the  
Rebuild of the Cummins VT-400 Crankshaft Assembly  
NSN 2815-01-123-2495  
and  
Cummins VT-400 Crankshaft  
NSN 2815-01-108-5384  
for the Assault Amphibious Vehicle (AAV)

1.0 SCOPE. This Statement of Work (SOW), along with RS-88643B Draft, establishes, sets forth tasks and identifies the work efforts that shall be performed for the rebuild of the Cummins VT-400 Crankshaft Assembly, NSN 2815-01-123-2495, or the Cummins VT-400 Engine Crankshaft, NSN 2815-01-108-5384, of the Assault Amphibious Vehicle (AAV), hereafter referred to as the Crankshaft Assembly and Crankshaft, to Condition Code "A". Condition Code "A" is defined as "serviceable/issuable without qualification, new, used, repaired or reconditioned materiel which is serviceable and issuable to all customers without limitations or restrictions, including materiel with more than six months shelf-life remaining".

NOTE: Information on the Crankshaft Rebuilding. This information is extracted from Cummins Alternate Repair Manual 3379035 and incorporated into R/S 88643B Draft. This is a final draft copy dated June 1985 and is awaiting final approval. This publication is being held/used in depot facilities to rebuild the VT 400 Cummins Engine Crankshaft.

1.1 Background. Rebuild is defined as "that maintenance technique to restore an item to a standard as near as possible to original or new condition in appearance, performance, and life expectancy. This is accomplished through disassembly of the item; inspection of all parts or components, repair or replacement of worn or unserviceable parts using original manufacturing tolerances and/or specifications and subsequent reassembly of the item".

2.0 APPLICABLE DOCUMENTS. The following documents form a part of this SOW to the extent specified. Unless otherwise specified, the issues of these documents are those listed in the Department of Defense Index of Specifications and Standards (DoDISS) and supplement thereto which is in effect on the date of solicitation. In the event of conflict between the documents referenced herein and the contents of this SOW, the contents of this SOW shall be the superseding requirement.

2.1 Military Standards

MIL-STD-2073-1D

DoD Standard Practice for Military Packaging

MIL-STD-129

DoD Standard Practice: Military Marking for Shipment and Storage

2.2 Other Government Documents and Publications

DoD 4160.21-M

Defense Materiel Disposition Manual

DoD 4000.25-1-M	Military Standard Requisitioning and Issue Procedures (MILSTRIP)
TM 2350-45	DMA Standard Procedures
3379035	Cummins Technical Manual Alternate Repair Manual
R/S 88643B Draft	Crankshaft Assembly

#### Military Handbooks (For Guidance Only)

MIL-HDBK-61	Configuration Management Guidance
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### 2.3 Industry Standards

ANSI/ISO/ASQC Q9001-2000	Quality Management Systems-Requirements
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#### Industry Standards (For Guidance)

ANSI/EIA-649	National Consensus Standards for Configuration Management
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Copies of Military Specifications and Standards are available from the DoD Single Stock Point, Document Automation and Production Service, Building 4/D, 700 Robbins Avenue, Philadelphia, PA 19111-5094, commercial, telephone number (215) 697-2179 or DSN 442-2179 or on the Internet at <http://www.dodssp.daps.mil>. Copies of other Government documents and publications requirements shall be obtained through the Contracting Officer: Contracts Department (Code 891), P.O. Drawer 43019, 814 Radford Blvd., Marine Corps Logistics Command, Albany, Georgia 31704-3019, commercial telephone number (229) 639-6761 or DSN 567-6761. Copies of engineering drawings, if applicable, shall be obtained from Supply Chain Management Center, Attn: (Code 566-1A), 814 Radford Blvd., STE 20320, Albany, Georgia 31704-0320, commercial telephone number (229) 639-6476 or DSN 567-6476.

### 3.0 REQUIREMENTS

#### 3.1 General Tasks. In fulfilling the specified requirements, the Contractor shall:

- a. Provide materials, labor, facilities, and services necessary to troubleshoot, test, diagnose, engineer, integrate, install, restore, and calibrate as required to make the Crankshaft Assembly and Crankshaft fully operational. Upon completion of the restoration, the Crankshaft Assembly and Crankshaft shall be Condition Code "A".
- b. Conduct final-on-site testing, which may be witnessed by Marine Corps Systems Command (MCSC) (PMM143), Albany, Georgia representative.

c. The Contractor shall be responsible for all structural, electrical, and mechanical requirements associated with the rebuild of the Crankshaft Assembly and Crankshaft.

d. Ensure the Crankshaft Assembly and Crankshaft meet the configuration identified in R/S 88643B Draft.

e. All mandatory replacement parts identified in R/S 88643B Draft shall be replaced 100 percent. Replacement parts may be reused if they meet the applicable inspection requirements in TM 2350-45. All parts shall be disposed of in accordance with DoD 4160.21-M

3.2 Detailed Tasks. The following tasks describe the different phases for the rebuild of the Crankshaft Assembly and Crankshaft.

3.2.1 Phase I - Rebuild. The Contractor shall receive Crankshaft Assembly and Crankshaft for rebuild. The Contractor shall then disassemble the Crankshaft Assembly and Crankshaft into components and conduct the rebuild process. The Contractor shall rebuild components in accordance with the requirements of this SOW. The Contractor shall be responsible for supplying all equipment, tools, test equipment, and materials for the conduct of this effort. The Contractor shall be responsible for the integration and assembly of all components. The configuration identification for the Crankshaft Assembly and Crankshaft is shown in R/S 88643B Draft and 3379035 Cummins Technical Manual Alternate Repair Manual. Upon completion of the rebuild, the Crankshaft Assembly and Crankshaft shall be Condition Code "A".

3.2.2 Phase II - Inspection, Testing, and Acceptance. Inspection, testing, and acceptance of the Crankshaft Assembly and Crankshaft shall be conducted in accordance with R/S 88643B Draft and ANSI/ISO/ASQC Q9001-2000, Quality Management Systems-Requirements. The Contractor shall correct any deficiencies discovered.

3.2.3 Phase III - Packaging, Handling, Storage, and Transportation (PHS&T)

a. The Contractor shall be responsible for the preservation and packaging for item(s) being repaired under the terms of this SOW. Items scheduled for long-term storage and shipment overseas shall be in accordance with the Level "A" requirements with MIL-STD-2073-1D Method 20. Items scheduled for domestic shipment or for immediate use shall be in accordance to Level "B" requirements.

b. Marking for shipment and storage shall be in accordance with MIL-STD-129.

c. The Marine Corps shall provide the Contractor with the shipping address(es) for the delivery of the repaired equipment. The Contractor shall be responsible for arranging for shipment to the pre-designated site(s). The Marine Corps shall be responsible for transportation costs associated with shipping the Crankshaft Assembly and Crankshaft to and from the Contractors.

3.3 Configuration Management

a. The Contractor shall apply configuration control procedures to established configuration items. The Contractor shall not implement configuration changes to an item's documented performance or design characteristics without prior written authorization. If deemed necessary to temporarily depart from the authorized configuration, the Contractor shall prepare and submit a Request For Deviation (RFD). MIL-HDBK-61 and ANSI/EIA-649 provide guidance for preparing RFDs.

b. The creation and submission of RFDs shall be accomplished using MEARS CREATE software, which resides at a secure web site, <https://mears1.redstone.army.mil>. For the purpose of gaining access to the web site, the Contractor shall request user-id and password privileges from the Requiring Office identified in Block 6 of the applicable Contract Data Requirements List. The Contractor shall direct technical or functional questions concerning usage of MEARS CREATE software to the Requiring Office for guidance. The Contractor shall notify the Requiring Office by electronic mail when completed MEARS RFDs are ready for formal submission.

**3.4 Government Furnished Equipment (GFE)/Government Furnished Materiel (GFM).** The Management Control Activity (MCA) (Code 581-1B) will coordinate GFE/GFM requests and maintain a central control system on all government owned assets in the Contractor's possession. The MCA will forward a GFE Accountability Agreement to the Contractor for signature on an annual basis to establish a chain of custody and property responsibility for Marine Corps assets. The Contractor is to acknowledge receipt of GFM to the MCA within 15 days of receipt. This can be done by mailing a copy of the DD 1348 to Materiel and Distribution Management Department, Distribution Management Branch, Management Control Activity (Code 581-1B), 814 Radford Blvd., STE 20320, Albany, Georgia 31704-0320 or faxing a copy to commercial (229)-639-5498 or DSN 567-5498.

**3.5 Contractor Furnished Materiel (CFM).** The Contractor may requisition materials as required in the performance of this SOW through the DoD Supply System. DoD 4000.25-1-M (MILSTRIP) Chapter 11 provides guidance to the Contractors on the requisitioning process. The decision to utilize CFM procured from the DoD Supply System shall be based upon cost effectiveness, availability of materiel and the required completion/delivery date.

### **3.6. Quality Assurance Provisions**

3.6.1 The performance of the Contractor's quality of work performed, materiel provided and documents written shall be subject to in-process review and inspection by the MCSC (PMM143), Albany, Georgia representative during contract performance. Inspection may be accomplished at any work location. The MCSC (PMM143), Albany, Georgia representative shall be permitted to observe the work/tasks accomplishment and/or to conduct inspections during Contractor's normal working hours. Acceptance Tests shall be held in-plant. The MCSC (PMM143), Albany, Georgia representative requires, at a minimum, two weeks notification of acceptance test to allow for sufficient time for MCSC (PMM143), Albany, Georgia representative to witness acceptance. Inspection by the MCSC (PMM143), Albany, Georgia representative of all acceptance tests, materials and associated lists furnished hereunder does not relieve the

contractor from any responsibility regarding defects or other failures to meet the SOW requirements which may be disclosed prior to final acceptance.

3.6.2 The Contractor shall provide and maintain a Quality System that, as a minimum, adheres to the requirements of ANSI/ISO/ASQC Q9001-2000, Quality Management Systems – Requirements. The Contractor's work shall be subject to in-process reviews and inspections for compliance with these procedures and standards by MCSC (PMM143), Albany, Georgia representative. Noncompliance with these quality assurance procedures resulting in degraded quality of work may result in a stop-work order requiring action by the Contractor to correct the work performed and to enforce compliance with quality assurance procedures or face contract termination. Notwithstanding such inspection, it shall be the Contractor's responsibility to ensure that the entire system meets the performance requirements of this SOW.

4.0 Reports. All reports/deliverables shall be submitted in hard copy to Marine Corps Systems Command, Attn: PMM143, 814 Radford Blvd, STE 20343, Albany, Georgia 31704-0343, unless directed otherwise in a Contract Data Requirements List.

4.1 Monthly Production Status Report. A monthly Production Status Report shall be submitted summarizing the progress and status of the Crankshaft Assembly or Crankshaft.

(1 Data Item)

Form Approved  
OMB No. 0704-0188

The public reporting burden for this collection of information is estimated to average 110 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden, to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports (0701-0188), 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302. Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to any penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number. Please DO NOT RETURN your form to the above address. Send completed form to the Government Issuing Contracting Officer for the Contract/PR No. listed in Block E.

A. CONTRACT LINE ITEM NO.	B. EXHIBIT	C. CATEGORY: TDP _____ TM _____ OTHER _____ <u>X</u>
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D. SYSTEM/ITEM AAV Crankshaft Assembly	E. CONTRACT/PR NO.	F. CONTRACTOR
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1. DATA ITEM NO.	2. TITLE OF DATA ITEM	3. SUBTITLE
A001	PRODUCTION STATUS REPORT	Monthly Production Status Report

4. AUTHORITY (Data Acquisition Document No.) DI-MGMT-81255	5. CONTRACT REFERENCE SOW 4.1	6. REQUIRING OFFICE PMM 143/AAVS
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7. DD 250 REQ LT	9. DIST STATEMENT REQUIRED	10. FREQUENCY MTHLY	12. DATE OF FIRST SUBMISSION see Blk 16	14. DISTRIBUTION	
					b. COPIES

8. APP CODE	A	11. AS OF DATE	13. DATE OF SUBSEQUENT SUBMISSION	a. ADDRESSEE	<table border="1"> <tr> <td rowspan="2">Draft</td> <td colspan="2">Final</td> </tr> <tr> <td>Reg</td> <td>Repro</td> </tr> </table>	Draft	Final		Reg	Repro
Draft		Final								
	Reg	Repro								

16. REMARKS Block 4 Contractor format is authorized. Delete the following paragraphs as they do not apply to the deliverable. 10.1,10.2.3, 10.2.5, 10.2.6, and 10.2.9	MCSC (AAVS)	0	1	0
	Albany, GA			

In paragraph 10.2.1.d use job order number or contract number	(SCMC (584-2)	0	1	0
In paragraph 10.24 and 10.27, replace "CLIN" with "CLIN - MHC/CLIN"	Albany, GA			

[illegible]

Blocks 10 and 12. The report shall be submitted on the tenth of each month. The first submission shall be 30 days after the contract award.

The production Status Report shall be transmitted via E-Mail to the following addresses HoffmanRE@mcsc.usmc.mil and MaynardVM@matcom.usmc.mil

Distribution Statement A: Approval for public release, distribution is unlimited.				
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15. TOTAL	1	0	0

G. PREPARED BY		H. DATE	I. APPROVED BY	J. DATE
[Signature]			[Signature]	

Handwritten Signature	10-24-03	Handwritten Signature	10-24-03
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**17. PRICE GROUP**



18. ESTIMATED TOTAL PRICE	
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(1 Data Item)

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Designed using Perform Pro, WHS/DIOR, Aug 96

G. PREPARED BY 	H. DATE 10-23-03	I. APPROVED BY 	J. DATE 10-27-03
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